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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/681,072	72 10/07/2003		Aleksandar Kojic	11403/51	8622
26646	7590	07/13/2004		EXAMINER	
KENYON & KENYON ONE BROADWAY				HUYNH, HAI H	
NEW YORK, NY 10004)4		ART UNIT	PAPER NUMBER
				3747	

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
	Office Action Summan	10/681,072	KOJIC ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Hai H. Huynh	3747				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)🖂	Responsive to communication(s) filed on <u>07 October 2003</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) 🖂	4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1-16</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)[The specification is objected to by the Examiner						
10)🛛	10)⊠ The drawing(s) filed on <u>05 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) 🗌	The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 						
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment	(s)						
1) Notice	e of References Cited (PTO-892)	4) Interview Summary (PTO-413)				
3) 🔯 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Dat 5) Notice of Informal Pa					
Paper	No(s)/Mail Date <u>4-12-04</u> .	6) Other:	,,,,				

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DETAILED ACTION

Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7 is rejected under 35 U.S.C. 102(e) as being anticipated by Dixon (US 2003/0075121)

Dixon teaches a method of controlling an internal combustion engine comprising the steps of compressing the gases within the prechamber 20 using the Application/Control Number: 10/681,072

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prechamber piston to cause auto-ignition in the prechamber, the auto-ignition in the prechamber producing hot gas jets and inducing auto-ignition in the cylinder 30 by introducing the hot gas jets from the prechamber 20 into the cylinder 30.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 8-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dixon (US 2003/0075121) in view of Kawamura (5,826,558).

Dixon teaches a homogeneous combustion jet ignition in an internal combustion engine comprising a prechamber 20 coupled to the cylinder 30 via at least one valve 43 including a prechamber piston 21. Kawamura teaches a control unit 8 receiving data regarding the load and current operating parameters within the cylinder, and control the valve 5 based on the received data. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the control unit on the homogeneous charge auto-ignition engine of Dixon as taught by Kawamura in order to achieve efficient combustion of fuel through the precise control of the opening/closing of the control valve.

Conclusion

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai H. Huynh whose telephone number is (703) 306-9183. The examiner can normally be reached on Monday through Thursday from 7:30 am to 6:00 pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hai H. Huynh Examiner Art Unit 3747